



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Attorney Docket No. 05222.00143) #3

In the Application of:)
Beams, et al.)
Serial No.: n/a 10/007824) Group Art Unit: n/a
Filed: November 5, 2001) Examiner: n/a
For: System, Method and Article of)
Manufacture for)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97-1.98, applicants wish to make the following references of record in the above-identified application. These references may be material to the patentability of the presently pending claims. A completed Form -1449 is enclosed. Due to the large number of references and large number of related applications, the Applicant filed a single copy of all of the references in U.S. patent Application Serial No. 09/219,478 in an Information Disclosure Statement filed February 7, 2002. U.S. Patent Application Serial No. 09/219,478 is assigned to Examiner Ingberg in Group Art Unit 2122.

A Protest under 37 C.F.R. 1.291 was filed in U.S. Patent Application Serial No. 09/219,478. The Applicant is attaching a copy of the Protest, as well as a Response filed in the same application by the Applicant. The prosecution of U.S. Patent Application Serial No. 09/219,478 remains open. The Protest and Response are attached as a courtesy to the Examiner, but are not being listed on the attached Form-1449, because they are not prior art references.

This Information Disclosure Statement is being filed within three months of the application filing date or before the mailing of a first Office Action on the merits, accordingly, no fee or separate requirements are required. However, if a fee is due in

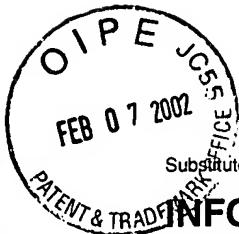


connection with this filing, please charge any fees or credit overpayment associated with
this paper to Deposit Account No. 01-0850

Respectfully submitted,
BANNER & WITCOFF, LTD.

Date: February 7, 2002


Charles L. Miller
Reg. No. 43,805



Substitute for form 1449 A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet _____ of _____

Application Number : n/a

Filing Date: 11/05/2001

First Named Inventor: Beams

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00143

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,622,013	11/11/1986	Cherchio	
		US- 4,874,784	10/17/1989	Clancey	
		US- 4,981,766	01/02/1990	Derr, et al.	
		US- 4,931,950	06/05/1990	Isle, et al.	
		US- 4,964,077	10/16/1990	Eisen, et al.	
		US- 4,977,529	12/11/1990	Gregg, et al.	
		US- 5,002,491	03/26/1991	Abrahamson, et al.	
		US- 5,170,464	12/08/1992	Hayes, et al.	
		US- 5,189,402	02/23/1993	Naimark, et al.	
		US- 5,208,745	05/04/1993	Quentin, et al.	
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		US- 5,239,617	08/24/1993	Gardner, et al.	
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		US- 5,311,422	05/10/1994	Loftin, et al.	
		US- 5,317,688	05/31/1994	Watson, et al.	
		US- 5,326,270	07/05/1994	Ostby, et al.	
		US- 5,359,701	10/25/1994	Chiang, et al.	
		US- 5,372,507	12/13/1994	Goleh	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
		EP 0 689 132 A2	12/27/95	Laffra	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 798 655 A2	10/01/97	Jervis, et al.	
		WO 00/04478	01/27/00	Jonsson	
		WO 97/44766	11/27/97	Cook	
		WO 98/03953	01/29/98	Simmons	
		WO 98/25251	06/11/98	Ho	
		WO 98/32109	07/23/98	De Lange	

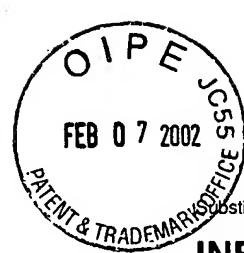
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First Named Inventor: Beams

Group Art Unit: n/a

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
		"ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/59298.html	
		The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Sto0ry, 1996.	
		"A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994	
		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994	
		"DDD--A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
		"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html	
		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Edu., Vol. 13(5), pp-341-46, Dec. 1997	
		"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	

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PTO/SB/08A (10-01)

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		US-5,395,243	03/07/1995	Lutbin, et al.	
		US-5,441,415	08/15/1995	Lee, et al.	
		US-5,491,743	02/13/1996	Shilo, et al.	
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		US-5,535,422	07/09/1996	Chang, et al.	
		US-5,537,141	07/16/1996	Harper, et al.	
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		US-5,566,291	10/15/1996	Boulton, et al.	
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		US-5,577,186	11/19/1996	Mann II, et al.	
		US-5,597,312	01/28/1997	Bloom, et al.	
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		US-5,644,686	07/01/1997	Hekmatpour	
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		US-5,673,369	09/30/1997	Kim	
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		US-5,696,885	12/09/1997	Hekmatpour	
		US-5,701,400	12/23/1997	Amado	
		US-5,720,007	02/17/1998	Hekmatpour	
		US-5,727,161	03/10/1998	Purcell, Jr.	

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Sheet _____ of _____

Application Number: n/a

Filing Date: 11/05/2001

First Named Inventor: Beams

Group Art Unit: n/a

Examiner Name: n/a

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		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at www.calsci.com/Applications.html	
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		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141	
		"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145	
		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," http://www.centurionsys.com/rtcl57.html , Aug. 1997	
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		"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995	
		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number : n/a

Filing Date: 11/05/2001

First Named Inventor: Beams

Group Art Unit: n/a

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		US-5,727,950	03/17/1998	Cook, et al.	
		US- 5,745,652	04/28/1998	Bigus	
		US- 5,772,446	06/30/1998	Rosen	
		US- 5,779,468	07/14/1998	Ho, et al.	
		US- 5,788,508	08/04/1998	Lee, et al.	
		US- 5,791,907	08/11/1998	Ramshaw, et al.	
		US- 5,799,151	08/25/1998	Hoffer	
		US- 5,799,292	08/25/1998	Hekmatpour	
		US- 5,806,056	09/08/1998	Hekmatpour	
		US- 5,810,747	09/22/1998	Brudney, et al.	
		US- 5,822,745	10/13/1998	Hekmatpour	
		US- 5,823,781	10/20/1998	Hitchcock, et al.	
		US- 5,823,788	10/20/1998	Lemelson, et al.	
		US- 5,835,683	11/10/1998	Corella, et al.	
		US- 5,868,575	02/09/1999	Kuczewski	
		US- 5,870,768	02/09/1999	Hekmatpour	
		US- 5,875,437	02/23/1999	Atkins	
		US- 5,889,845	03/30/1999	Staples, et al.	
		US- 5,893,123	04/06/1999	Tuinenga	
		US- 5,911,581	06/15/1999	Knight Jeremy, et al.	

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Application Number : n/a

Filing Date: 11/05/2001

First Named Inventor: Beams

Group Art Unit: n/a

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		"Artificial Intelligence and Mathematics Education" at http://www.rand.org/hot/mcarthur/Papers/aied.html	
		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html	
		"WITS: A Reusable Architecture for a VR-Based ITS" at http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html	
		"Brainmaker" at www.npiec.on.ca/~echoscan/28-04.htm	
		"News for ESAP" at www.hops.wharton.upenn.edu/~esap/news.html	
		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
		"User-Sensitive Multimedia Presentation System," March 1, 1996, Vol. 39, No. 3, pp. 93-94	
		"Microworlds and Simuworlds: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
		"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

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Form 1440 A/BTO

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		US- 6,003,021	12/14/1999	Zadik, et al.	
		US- 6,015,348	01/8/2000	Lambright, et al.	
		US- 6,016,486	01/18/2000	Nichols	
		US- 6,018,730	01/25/2000	Nichols, et al.	
		US- 6,018,731	01/25/2000	Bertrand, et al.	
		US- 6,018,732	01/25/2000	Bertrand, et al.	
		US- 6,023,691	02/08/2000	Bertrand et al.	
		US- 6,023,692	02/08/2000	Nichols	
		US- 6,026,386	02/15/2000	Lannert, et al.	
		US- 6,029,156	02/22/2000	Lannert, et al.	
		US- 6,029,158	02/22/2000	Bertrand, et al.	
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		US- 6,067,537	05/23/2000	O'Connor, et al.	
		US- 6,067,538	05/23/2000	Zorba, et al.	
		US- 6,073,127	06/06/2000	Lannert, et al.	
		US- 6,085,184	07/04/2000	Bertrand, et al.	

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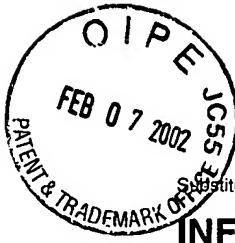
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		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
		"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995	
		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.	
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		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.	

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

Approved for use through 10/31/2008. GPO 2007-088.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number : n/a

Filing Date: 11/05/2001

First Named Inventor: Beam:

Group Art Unit: n/

Examiner Name: n/

Attorney Docket Number: 05222.00143

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Examiner Signature		Date Considered	
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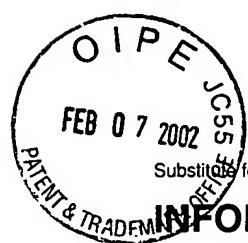
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3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet _____ of _____

Application Number : n/a

Filing Date: 11/05/2001

First Named Inventor: Beams

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00143

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
		"Interface design issue for advising giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
		"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
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		"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35	
		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
		"Rule-Based Programming with OPS5" at www.mkp.com/books_catalog/O-934613-51-6.asp	
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		"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997	
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		"Simulation Technology and Parallelism in Learning Environments" at http://www.tu.utwente.nl/prj/min/Book/chapter1.htm	

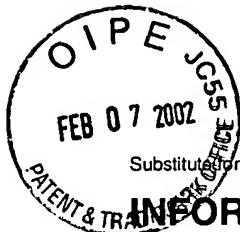
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Sheet _____ of _____

Application Number: n/a

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First Named Inventor: Beams

Group Art Unit: n/a

Examiner Name: n/a

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		"Engines for Education" URL: http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html ; viewed Feb. 15, 1999.	
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		"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
		"Decision Pro3.0" at www.vanguardsw.com/	

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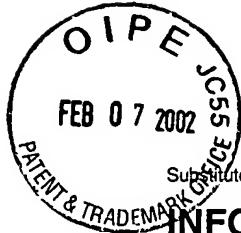
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		"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
		"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	
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		"Template Software Workflow Simulator, Chapter 8, June 1998	
		"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

Approved for use through Sept. 16, 2001. GMB 0581-0687.
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Application Number: n/a

Filing Date: 11/05/2001

First Named Inventor: Beams

First Name/Initials: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00143

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By: Tony Harris
(person *actually* depositing)

In the Application of: Beams, et al.

Serial Number: n/a

Filing Date: November 5, 2001

Title: A System, Method and Article of Manufacture for Creating a virtual University Experience

- Information Disclosure Statement
- Form 1449
- Transmittal letter
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Attorney Docket No.: 05222.00143

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By: ERICK SILVA
(person *actually* depositing)

Patent Application of: Beams, et al.
Serial No. 10/007,824
Attorney Docket No. 05222.00143
Title: A System, Method and Article of Manufacture for Creating
a Virtual University Experience

X Response to Notice of Missing Parts (1 sheet)
X 2 Joint Declarations executed on December 1 and 14, 2001 (4 sheets)
X Copy of Notice of Missing Parts dated February 8, 2002 (2 sheets)
X Substitute specification (214 pages of Specification, 4 pages of 19 Claims, 1 page of Abstract)
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